



# Joint Interoperability Test Command



## DODIIS WORLDWIDE 99

## Test Planning Oversight Committee

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# AGENDA



- ❑ **JITC Mission**
- ❑ **JITC Interoperability Testing**
- ❑ **JITC Interoperability Certification Process**
- ❑ **Upcoming DODIIS Interoperability Test Schedule**



# JITC Mission Areas

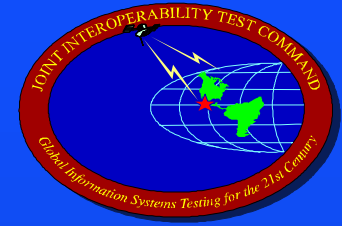


- ❑ Operational test and evaluation for Joint C4I systems
- ❑ DoD joint interoperability assessment and certification
- ❑ C4I technical assistance to Warfighters





# JITC Specific and Unique Roles



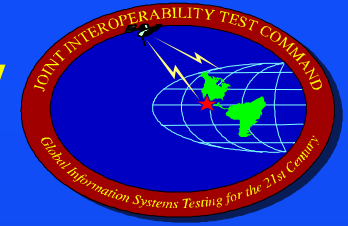
- ❑ Sole Joint C4I System Interoperability Certifier (DoDD 4630.5, DoDI 4630.8, CJCSI 6212.01A)
- ❑ Operational Test Agency (OTA) for Joint Systems (GCCS, GCSS, DMS, DISN) and other DoD elements
- ❑ Executive Agent for Testing (NIMA, EKMS, and CDL)
- ❑ Major Range & Test Facility Base (MRTFB) Element
- ❑ Cooperative Research & Development Agreements (CRADA)
- ❑ DoD Interoperability Test Conference
- ❑ Navy DMS Transition







# Joint C4I Interoperability



## DoDD 4630.5

Forces for joint and combined operations must be supported through compatible, interoperable, and integrated C3I systems that can support operations worldwide throughout the entire spectrum of conflict.

## CJCSI 6212.01A

Tasks JITC to do the independent analysis to certify C4I systems for Compatibility, Interoperability, and Integration throughout the life-cycle.

## DoDI 4630.8

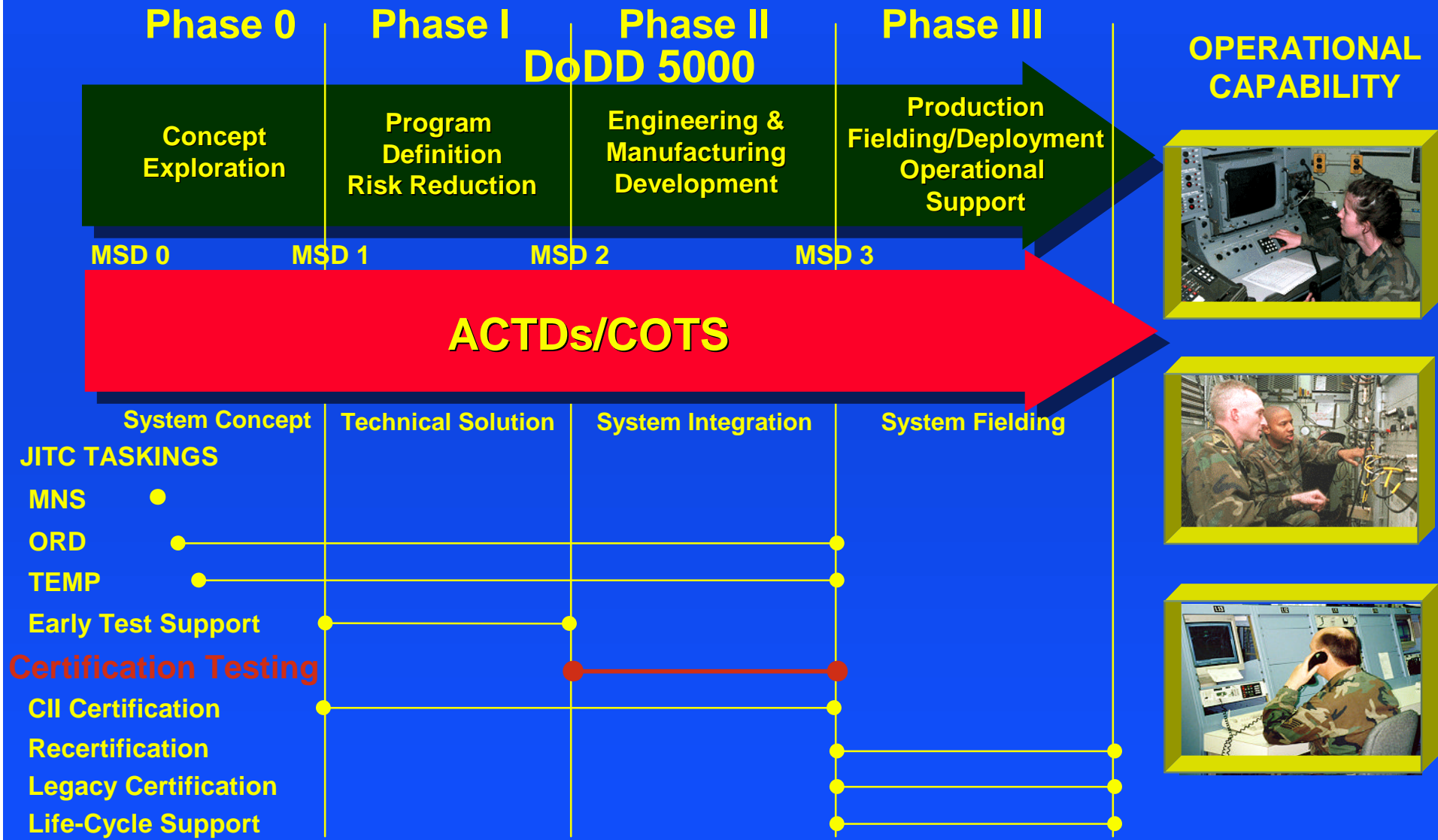
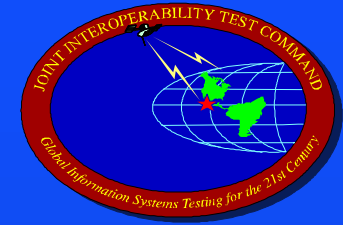
All C3I systems developed for use by U.S. forces are considered to be for joint use and shall be certified by DISA to the appropriate developmental and operational organizations and the JCS as an integral part of the acquisition process.

## Joint Publications 1-02

Ability of the systems, units, or forces to provide services to and accept services from other systems, units, or forces, and to use the services so exchanged to enable them to operate effectively together.

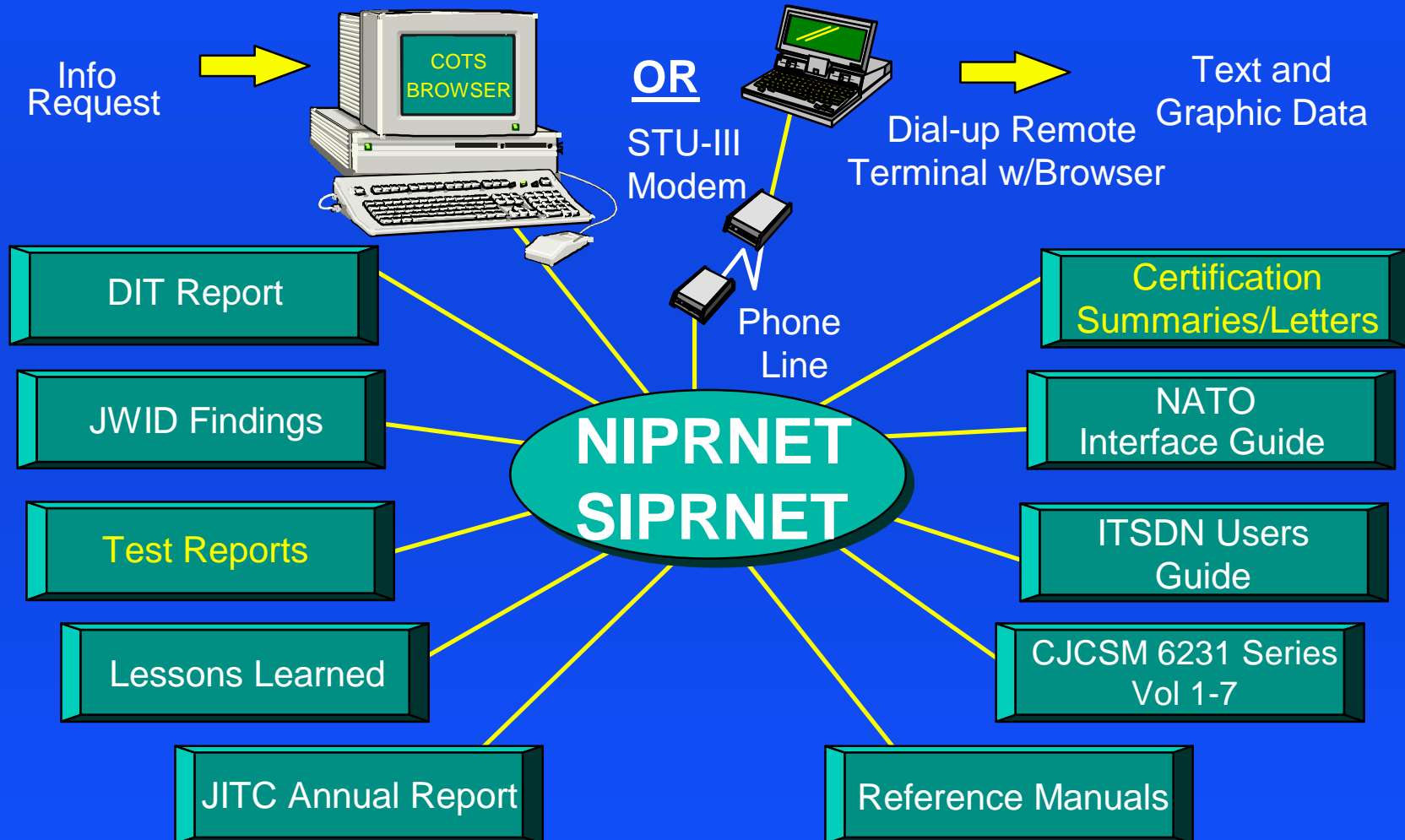
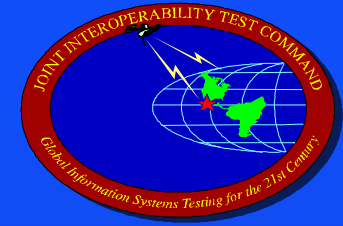


# Acquisition Process JITC Involvement





# Joint Interoperability Tool (JIT)

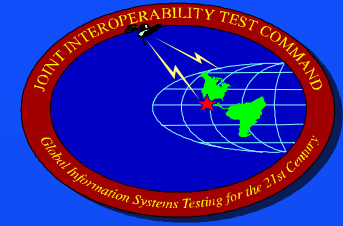


**JIT: NIPRNET <http://jit.fhu.disa.mil>**





# Why Interoperability Testing



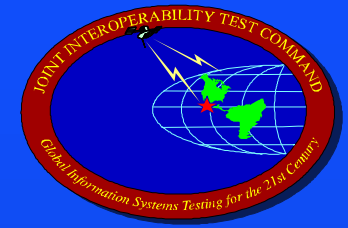
- ❑ National Imagery Transmission Format Standard (NITFS) not implemented correctly in all products
  - Different viewers will view the same file differently
  - Problem: Same image but different target
- ❑ JITC assessment and certification based on operational perspective







# JITC Interoperability Perspective



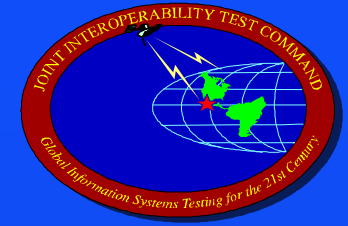
PEOPLE

PROCEDURES

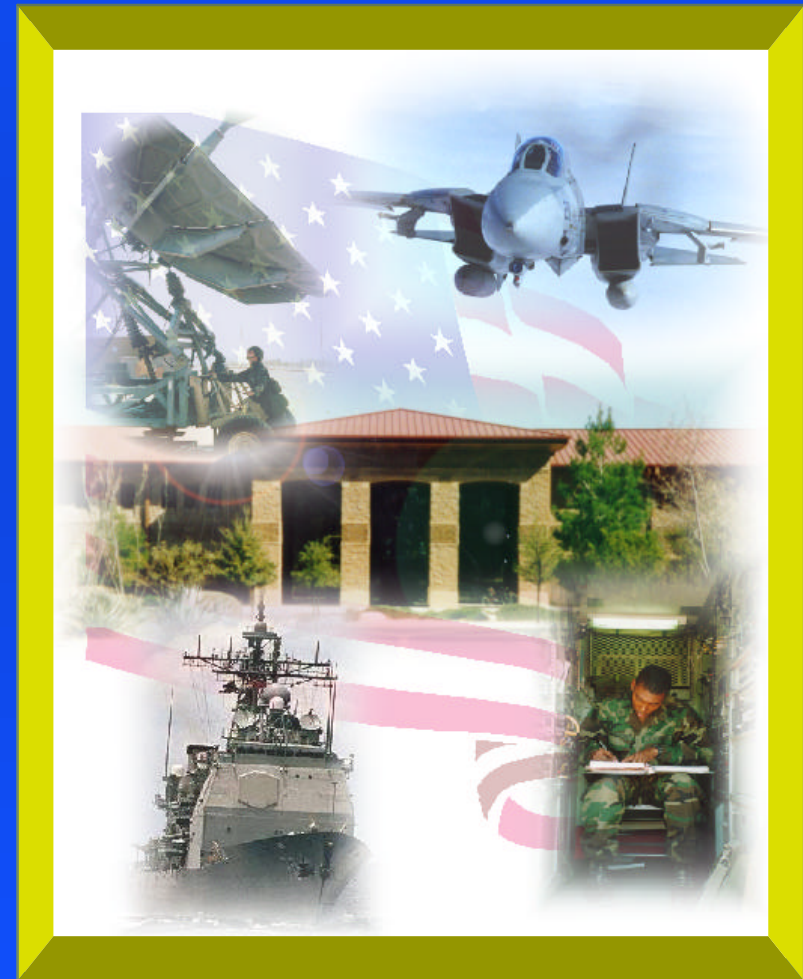
EQUIPMENT



# JITC Testing



- ❑ **Criteria for measuring success**
  - MNS and ORDs
  - Test for success
  - Conduct certification testing for system characterization
  - Ensure operational capability
- ❑ **Major challenges**
  - Fast track acquisition process
  - Service vs. Joint acquisition
  - Distributed operational environment
  - Affordable confidence
- ❑ **JITC's follow-on program**
  - Validate and verify certifications
  - Capture systems that escaped acquisition cycle
  - Operate and maintain C4I equipment





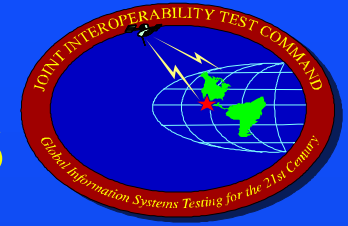
# What Customers Want



- ☐ **Program Management Offices**
  - Fast, fair, cost-effective evaluation
- ☐ **Users**
  - To know what the system will and will not do, and the impacts of problems
- ☐ **Joint Staff / DMB**
  - A useful categorization of systems to assess overall status and identify problem areas



# Certification Objectives

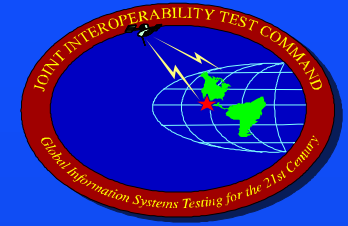


- ☐ Identify and address all interoperability requirements
- ☐ Incorporate user input into the test and evaluation process
- ☐ Provide a comprehensive summary of performance versus requirements
- ☐ Provide a simple but meaningful measure of interoperability





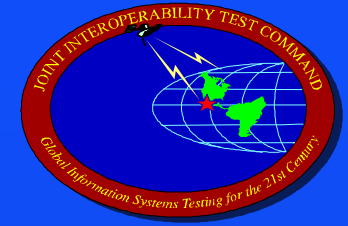
# Test Planning Process



- ☐ Requirements document review
- ☐ User requirement identification and confirmation
- ☐ Interoperability requirement matrix creation
- ☐ Matrix and rating scale coordination with community



# Interoperability Requirements Matrix



- ☐ Identifies interfaces
- ☐ Defines requirements
- ☐ Specifies criticality (risk assessment)
- ☐ Flexible format / reporting template



# Interoperability Rating Scale



RATING	REQUIREMENTS MET	OPERATIONAL IMPACT
I1	ALL	NONE
I2	SOME	MINOR
I3	SOME	MODERATE
I4	SOME	SIGNIFICANT
I5	NONE	SIGNIFICANT



# Test Reporting Process

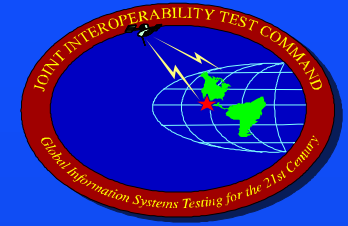


- ☐ Certification letter includes ratings for each interface
- ☐ Certification summary includes requirements/results matrix
- ☐ Certification report goal: 4 weeks
- ☐ Certification letter goal: report + 2 weeks





# Certification Process Goal



- ❑ Project Offices get better, faster reports
- ❑ Users get a comprehensive matrix of performance versus requirements
- ❑ The Joint Staff gets a consistent rating scheme for all certified systems



# DODIIS Interoperability Test Schedule



Jun

Jul

Aug

Sep

Oct

Nov

Dec



AF ISR Y2K Assessment

TBMCS Y2K  
Assessment

JCMT 1.1

Retest

IDEX II Replacement  
(Demo 14) Beta I, II & Y2K

IESS 4.0    IESS 4.0

SEM II    SEM III

JTT  
Beta I



# AF ISR Y2K Assessment



## Test Dates/Locations:

7 Jun to 9 Jul , JITF, Rome, NY

TBMCS Y2K Retest - Sep, JITF, Rome, NY

A Y2K Assessment only, no certification. Conducted in conjunction with JITF and the USAF ISR SIMO. Many DoDIIS IMA's involved in the test threads.

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# JCMT Version 1.1



## **Test Dates/Locations:**

Beta II Retest - 2-6 Aug 99, National Ground Intelligence Center (NGIC)

## **Interfaces:**

AMHS V2.3.4

RMS V6.1

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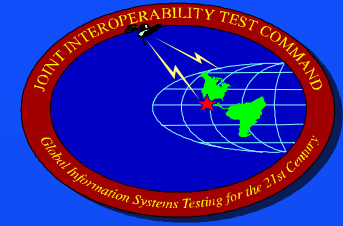
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# IDEX Follow-on (NIMA Demo 14)



## Test Dates/Locations:

Beta I - 24 Aug through 7 Sep 99, NIMA ITF, Newington, VA

Y2K Interoperability - 13-17 Sep 99, NIMA ITF, Newington, VA

Beta II - 20-24 Sep 99, Atlantic Intelligence Command, Norfolk, VA

## Interfaces:

DE V2.1

IAS V2.7

IEC V2.0

NIMA Library V2.0

IPL V2.1

EAC V1.0

IESS Version 4.0

**JITC POC:** Randy L. Richard

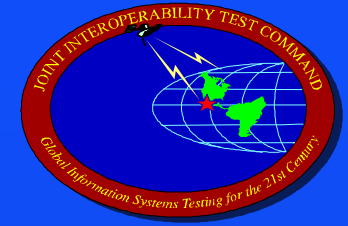
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# IESS Version 4.0



## Test Dates/Locations:

SEM Phase II - 20-24 Sep 99, USSPACECOM, Peterson AFB, CO

SEM Phase III - 4-8 Oct 99, USCENTCOM, McDill AFB, FL

## Interfaces:

DE V2.1

IPL V2.1

EPS V2.0

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# Joint Targeting Toolset (JTT)



## Test Dates/Locations:

Beta I, Y2K Interoperability - 30 Aug to 3 Sep 99, JITF, Rome, NY

Beta II - TBD

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# Joint Interoperability Test Command



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